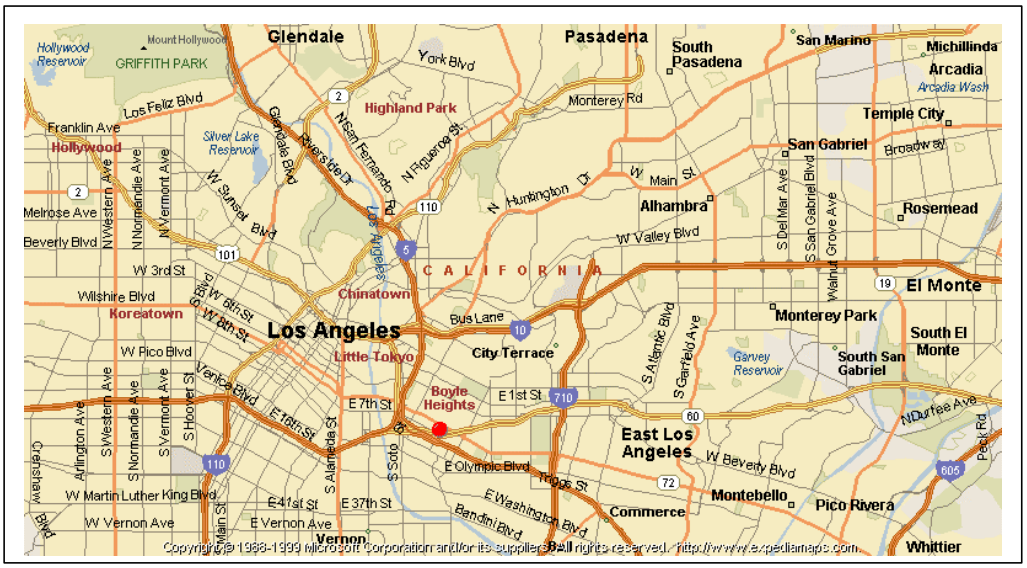
California Environmental Protection Agency
Air Resources Board

California Ambient Dioxin Air Monitoring Program
Site Summary

Boyle Heights

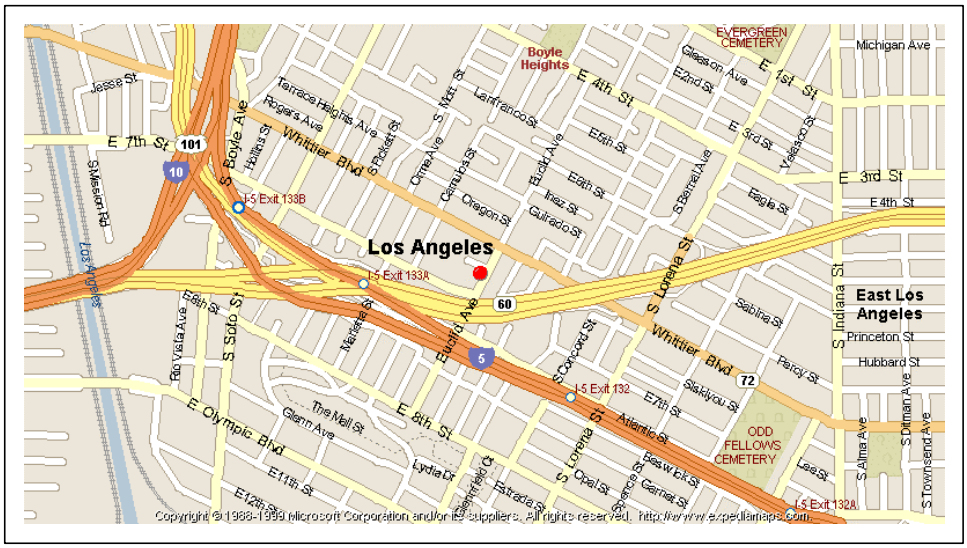
This page updated on July 17, 2002

Site Location:
The East Los Angeles Mathematics, Science and Technology Center, located in the Boyle Heights section of Los Angeles, is one of nine sites chosen for the California Ambient Dioxin Air Monitoring Program (CADAMP). The site is located at 961 Euclid Avenue in the residential area of Boyle Heights and is approximately one-half mile downwind of the convergence of four major Los Angeles area freeways.



Site Approval:
Administrators of Los Angeles Unified School Districe granted the Air Resources Board (ARB) permission to install an ambient air monitoring station on this property.

Monitoring Start Date:
Collection of samples for ambient air quality analysis for CADAMP began in December 2001.



Reason for Choosing Boyle Heights:
Boyle Heights was chosen because of its proximity to mobile source emissions and the because of the high number of children living in the community. There are approximately 16 schools and childcare centers (public and private) in the area encompassed by the 60, 5, 10 and 101 freeways. The location of the monitoring station, East Los Angeles Mathematics, Science, and Technology Center is near Hollenbeck Middle School, which has a student population of 2200. Theodore Roosevelt Senior High School, located

directly across from Hollenbeck, is one of the largest high schools in Los Angeles County with an enrollment of over 5000.

Emission Sources:
In addition to mobile source emissions, point sources in and around Boyle Heights were determined through emissions inventory data and physical survey of the area. Major sources identified include printing and refinishing facilities, trucking operations, large-scale boilers, and textile facilities. Other sources of air pollution in Boyle Heights include neighborhood scale sources such as dry cleaners and service stations.

Monitoring Parameters:
Dioxin-like compounds that will be monitored for CADAMP include dioxins, furans and congener specific PCBs. A total of 31 compounds will be evaluated each month. Meteorological data collected at Hollenbeck Middle School includes wind speed, wind direction, ambient temperature and relative humidity.

Monitoring Schedule:
The dioxin sampler will be run for 28 consecutive days each month for the duration of the project. Quartz fiber filters and polyurethane foam (PUFs) comprise the sampling media. Filters will be collected and replaced every 6th day. PUFs will be collected on the 28th day. Filters and PUFs will be composited for a single monthly sample analysis.

Anticipated End Date:
The ARB anticipates that the ambient dioxin air monitoring will continue at East Los Angeles Mathematics, Science and Technology Center for 2 years, ending after December 2003.

Agencies/Resources/Roles:
The ARB is the lead agency for the California Ambient Dioxin Air Monitoring and has overall responsibility for the project. The South Coast Air Quality Management District (SCAQMD) provided assistance in selecting the East Los Angeles Mathematics, Science, and Technology Center station and will perform all routine sample collection tasks. A laboratory under contract to the ARB will perform analysis of samples collected at East Los Angeles Mathematics, Science and Technology Center. Staff in the ARB Monitoring and Laboratory Division, Quality Management Branch (Operations Planning and Assessment Section) will have the lead role in coordinating sampling, tracking the project, validating the data, conducting quality control and quality assurance activities, and writing the quarterly reports. ARB's Stationary Source Division (SSD) will evaluate ambient concentrations to prioritize risk management strategies. Data will be shared with the U.S. EPA and the SCAQMD.

Connection to Other Air Resources Board Programs:
In addition to providing data necessary to determine ambient dioxin, furan and PCB concentrations for CADAMP, monitoring at nearby Hollenbeck Middle School was recently conducted for the Children's Environmental Health Protection Program under SB 25 (http://www.arb.ca.gov/ch/programs/sb25/index.htm). This monitoring was done to address the exposure of children to criteria pollutants, non-methane hydrocarbons (NMHC), and air toxics. Data collected at Hollenbeck Middle School will also be used to support the ARB's Community Health Program (http://www.arb.ca.gov/ch/ch.htm) and will provide information for the ARB's ongoing efforts to mitigate the health risks from diesel particulate (http://www.arb.ca.gov/diesel/background.htm). The Planning and Technical Support Division of ARB is coordinating the Community Health Program and will use the data generated at the Hollenbeck Middle School monitoring station to support other Community Health studies currently under development. Public outreach for the Community Health Program is being coordinated by the Planning and Technical Support Division.

For more information contact: *Webster Tasat, Manager, Operations Planning and Assessment Section (916) 322-7055*